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# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

### Division of Oil, Gas & Mining

MICHAEL R. STYLER  
Executive Director

JOHN R. BAZA  
Division Director

### Inspection Report

#### Minerals Regulatory Program

Report Date May 30, 2006

Supervisor 1027

**Mine Name:** Ziegler Gilsonite  
**Operator Name:** Ziegler Chemical and Mineral

**Permit number:** M0470013  
**Inspection Date:** May 17, 2006  
**Time:** 1:00 to about 4:30 PM

**Inspector(s):** Paul Baker

**Other Participants:** Stan Perkes (Utah BLM), Valyn Davis and Duane Boren (Ziegler)

**Mine Status:** Active

**Weather:** Mostly clear, 80's

Elements of Inspection	Evaluated	Comment	Enforcement
1. Permits, Revisions, Transfer, Bonds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Public Safety (shafts, adits, trash, signs, highwalls)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Protection of Drainages / Erosion Control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Deleterious Material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Roads (maintenance, surfacing, dust control, safety)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Concurrent Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Water Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Revegetation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Air Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Purpose of Inspection:

I wanted to accompany Mr. Perkes to inspect the sites on federal land.

#### Inspection Summary:

##### 2. Public Safety (shafts, adits, trash, signs, highwalls)

We visited two partially reclaimed sites, Cowboy and Cowboy 2, and one inactive site on the North Vein. At Cowboy (Photos 1-3), the operator intends to take the building (Photo 2) to the Neal State Mine to use as a hoist house. There are other items that also need to be cleaned up. There are two concrete slabs at Cowboy 2 (Photo 5) that the operator plans to use to cover the shaft at Cowboy. Once the slabs are in place, the operator will pour concrete over the top to create a cap with a total thickness of, as I understood it, two feet. Before pouring the concrete, it will be necessary to anchor rebar into the existing slabs so the new concrete will have something to which it can bind. Half-inch rebar will be put in the new concrete at one-foot intervals. The operator will try to have this work completed by September 1, 2006.

Cowboy 2 (Photos 4-6) is mostly reclaimed, but the operator needs to install the cap. This needs to be done so it can be buried.

##### 3. Protection of Drainages / Erosion Control

There is a small drainage leading to the reclaimed escapeway for the Cowboy Mine, and the operator has modified this drainage so runoff is diverted away from the escapeway.

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#### 10. Revegetation

There is some soil available in the Cowboy Mine area. In using this soil, the priority should be to cover areas with clay, particularly parts of the road.

Most vegetation at the Cowboy 2 site is cheatgrass, but there are some perennials, notably purple three awn and gooseberryleaf globemallow. There is also some galleta and Wyoming big sage in the area.

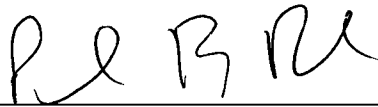
#### **Conclusions and Recommendations:**

The drainage in the area of the Cowboy escapeway needs to be armored so it can be more permanent.

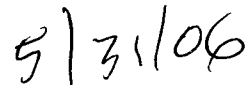
The Cowboy Mine should be seeded this fall as soon as possible after grading is completed. The surface should be left very rough.

At the Cowboy 2 Mine, I recommend that the operator consider remedial work to reduce the amount of cheatgrass and increase the perennials. If this is not done, I believe it is unlikely the area will have enough perennial vegetation cover within the foreseeable future to allow for complete release. The operator should consider application of an herbicide called Plateau. The Division has further information about this herbicide. It would be necessary to obtain approval from the BLM to apply the herbicide, but it should be possible since the site is less than five acres.

Inspector's Signature



Date:



PBB:jb

cc: Valyn Davis, Ziegler  
Stan Perkes, BLM

Attachment: Photos



**ATTACHMENT  
Photographs**

**M0470013, Ziegler Gilsonite Mine, Ziegler Chemical and Mineral  
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**Photo 1. The shaft at the Cowboy Mine.**



**Photo 3. Diversion near the escapeway at the Cowboy Mine.**



**Photo 2. The operator intends to use this building as a hoist house at the Neal State Mine.**



**Photo 4. This is the collar over the shaft at he Cowboy #2 Mine.**





**Photo 5. The operator intends to use these slabs to cover the shaft at the Cowboy Mine.**



**Photo 6. Overview of the Cowboy #2 area. Most of the vegetation is cheatgrass.**